

**(19) World Intellectual Property
Organization
International Bureau**



(43) International Publication Date
22 January 2004 (22.01.2004)

PCT

(10) International Publication Number
WO 2004/007158 A1

- (51) **International Patent Classification⁷:** D04H 1/54, 3/14, 3/16

(21) **International Application Number:** PCT/EP2003/007217

(22) **International Filing Date:** 5 July 2003 (05.07.2003)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**
102 32 148.5 16 July 2002 (16.07.2002) DE

(71) **Applicant (for all designated States except US):** COROVIN GMBH [DE/DE]; Wolstorfer Strasse 124, 31224 Peine (DE).

(72) **Inventors; and**

(75) **Inventors/Applicants (for US only):** MUTH, Mathias [DE/DE]; An der Aulenkaut 41, 65197 Wiesbaden (DE). SODEMANN, Ralf [DE/DE]; Eulenring 42, 31224 Peine (DE).

(81) **Designated States (national):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) **Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

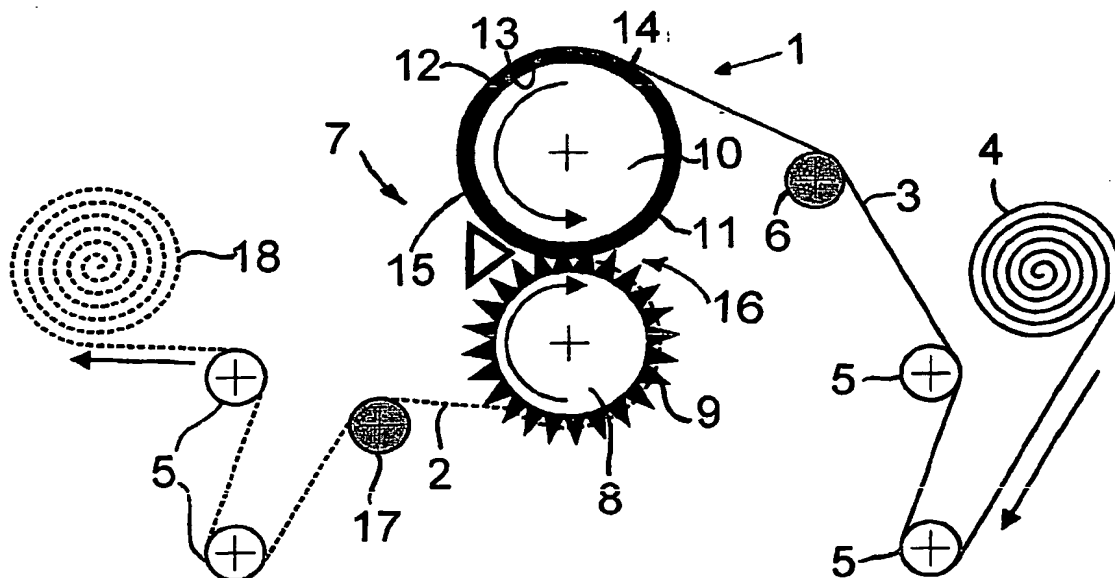
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DEVICE AND METHOD OF LIQUID-PERMEABLE PERFORATION OF A NONWOVEN



(57) Abstract: The present invention relates to a method for the manufacture of a perforated nonwoven (2), whereby perforation means engage into the nonwoven. The perforation means are arranged on a first roller (8). The perforation means engage through the nonwoven into a surface (15) of a second roller (10). The perforation means displace fibres of the nonwoven, whereby the perforation means engage in a material on the second roller (10), such that said means can displace the material when they engage. In addition, a corresponding device and corresponding materials are provided for.

WO 2004/007158 A1